Notebook Series -- Pocket Notebooks
Notebook, NP-12-04-27

This undated pocket notebook was used by Edison, probably during the winter and spring of 1911, to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Clean transcriptions of some of the entries in this book can be found in PN-11-05-15. Included are notes relating to storage batteries, record production, recorders and reproducers, and cement. There are also lists of inventions to be patented, as well as lists of musical selections and singers. The business-related entries include notes about prospective employees, advertising, costs, taxes, and film rentals to owners of home projecting kinetoscopes.

Among the numerous Edison employees mentioned in the book are battery experimenters Ralph Arbogast and Thomas D. Greenley; chemists Jonas W. Aylsworth, Ignacy Goldstein, and Ludwig F. (Louis) Ott; master machinist Robert A. Bachman; Frank L. Dyer, president of Thomas A. Edison, Inc., and head of the Legal Dept.; Walter H. Miller, head of the Recording Dept.; and phonograph experimenter Alexander N. Pierman. The pages are unnumbered. Approximately 150 pages have been used.

Karel Bondman Pianoist 54
Morningside Ave E. NY

Patent.
Printing film optically
" Machine.
New Tray for batteries
Telraphalt compound
Mfg Nitt long drying alkalts in -
Mell with 1 to 3½ Cobalt.
New compute record flocking Mcillain
Lift up horn movement friction lock -
Small machine lifting horn-food
Key for holding accordo
Wooden speed for cam -
Copper inserts in Submarine pole pieces.
2 threads on disc 75 each 2 splers round same time
WE Atherton WU Tel Engr of
Equipment 6980 Connecticut.

Work up substitute for Rubber
bulbs now used to keep top cells
free of liquid

.051

Stand somebody finding a market for Copper for Elbow Wheel is more Comel than Nickly pennies

Angels Serenade, Swanee River
Robt Adair, Old Folks at Home
Coming thru the Rye, Old Black Joe
Nelly Gray, Ave Maria, Went Waging
Home, Sunset Home, Massa in Cold ground
Tenting tonight, Where I may wandering
Boys tonight, Rosary, Nancy Lee
My Samba, I have sighed Forever,
Evening Star, Tannhauser, Lady Lou
Last rose of summer, When swallows
homeward fly, Kathleen Mavourneen
Jeniata, Hearts bowed down

See Lansdon about next new place —

Newspaper Ads average 2.50 inch
Column Sat Eve Post $84 inch, meant
Munsey $31. Review of R $16. inch
Life $14. inch —

How about troughs chip Gallery
Crates,

Carbonize wood to red
Charcoal See folands ROH,

Patent —
Closed front of Phono
weight to keep feed arm in —
Universal joint on operator positioning
device 10 12 & 14"

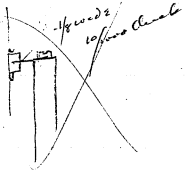
Did RA ever reduce non plated cases
whole see Hallard

Tell Bachman about asphalting in flake room

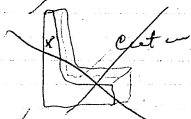
Premium second like heavy water from disc on cylinder at double speed

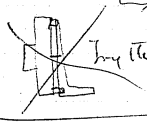
Have a splint of flake from rolls see what occurs

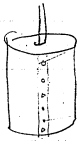
Connect arm on Spiro 4" by link pennyphe



Grind in Mortar with alcohol Lampblack Violet for testing record filter the violet Try $SrCO_3$ instead Lampblk —







1/4 wide strip
1/32

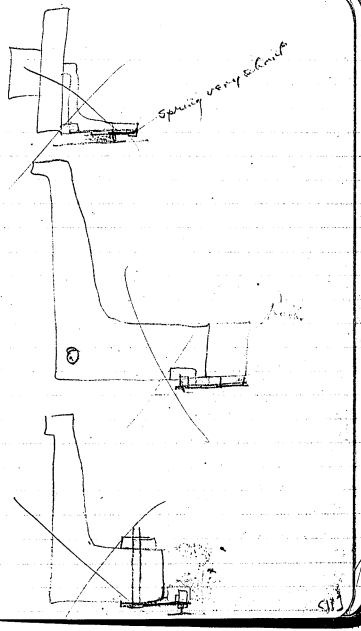
to cut on

for flake

See Weather Weller & Co
somewhere close records
bring Tickets here &
above –

Carriages & coupe & lots 17
Carriage Miscellany – 25
Central Station 16
Comel Vehicle 40
Cycles & Cycle Trade pul 80
Elec Roadway 30
" (Power) 32
" Motor Truck 21
Power & Lighting 27
" Motor & cars 38
" Boating 45
Automobile 30
Motor Wheel 23
Motor Print 68
RR Elec Engr 30
Selling Car 30
American Motorcycle 30
Pacific Motor Boat 22
Motor Car 40
Southern Electric 20
Dale Trade Exp & Imp 40
Popular Sci RR & Elec
Boating & Canoe 70
Motor Field 24

$900 monthly



Try Sublimate [illegible]
H_2SO_4 on Hg – to make
Dope –

Plaquenola from Plaque

Ambenola [Cylinder] Polyjodion.
Ambenola [Disc] Polytone, ~~Polyphone~~
Grand Ambenola [Disc] Consonola
Dulcamentola
Dulcephone
Euphonola

Phattenola from Phattan

Volutola, from Volute Spiral

Acoustola, from Acoustic

Melodiola from Melody

Phonolola from Sound

Orchestrola –

Symphonola Symphonic

Sonatola Sonata – Every variation

Cylinder Phonograph
Plaque phonograph

1439 Rq Expt Rq Expt 2 week. 6226-7
Rq dryer Top coil Cover on Top 1 Hole 1/4"
to every 24 sqr inch 145 hours drying
average temp 84 C max 97 min 68 C.

Dup. 1440 RQ – dried on 4th 6228-9
Coil from Top. Max Temp 89 Cent
Minimum 63 "
average 75 "
Dried 145 hours

Dup 1441 Ra Expt 6344-5
Dried balloon cloth dryer
max temp 78 C minimum 48 C
average 63 — 306 hours drying

Shield [illegible]
Stop ocean rubber.

Call attention
attention to high
points on mold
(Mold being at present
grooves on sequoia [illegible]
or to be made)

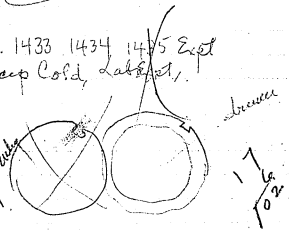
Call Walter Miller attention
to Big Waves in 107 [illegible]
+ also that the original
never were tracked [illegible]
Enough + accompanyment

Lansdew — 6 months sales $133 000. at
2700 each 50 vehicles. — Opto Exp sal &
Extra force which are to go. $417 month
for 6 m $14500 $290 per wagon
Kinsey Sales $22190 Klengsmith 9994
Tyler 2500 - Repeat order 98316 00

What about that man
searching Backtile —

~~Patent Double close
geared together
or same shaft one
close above the other
Record accompanyment
on rec. + serving lithe
other —~~

RU 1433 1434 1435 Expt
precip Cold, Lab Expt.



(65)

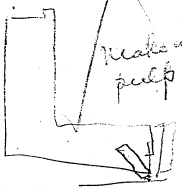
Dryer - How about
Corporation govt Contract -

Dia x x with them & put
under tension by block
in Center - Edges shellacked

Try shellacing both sides
of the 130 @ 50 white pulp
dia -

Soak Blotting paper in
shellac - also Condensate
& burn off 40 & 120
Center -

Use 55/1000 white board
back up with 150/Cork
at Center 50 at edge
use Lac on cork roller -
+ add ~~[illegible]~~ dry line
1" dia in Center of
Cork -



Make up which
pulp filters
2 places

Sheepskin
[illegible]

Talk to Digest Bee about our
phone agts seeing people
having Electrics which I
calling Cargo in - To
My & have parties Chrmps.
over - Commission 10%
which is of 80. net to them

Worth Kalenburg
Unknown Wisconsin
for weight lifting
Chemical Electric —

Nov —

Selling	4916 —	off
Shipping	466	
Advtg	3130 —	2000
Administration & Gen	5838	
	14352	

Rent	1378
Gas	246
Tax	103
Bond int	2500
Bank Direct	767
	4994

Shop pay out 1400 a week
1145 daily 27480 month

Edison Academy of
Political Science
Please give me the
address of J. Pease
Norton, =

~~Make list 3½ Cells see
how cost of that helps
heat~~

Powers 360 amp 48 Cells
3100 lbs - 96 V

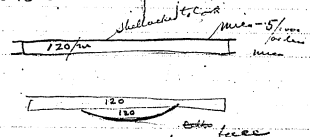
34560 watts

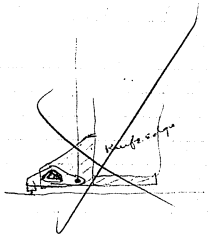
80 A10-96 V 375 amp
36000 watts

Epsilon

Plates	9	11	13	15	17	19	21
amp -	112	140	168	196	224	252	280
Weight	28 3/4	35 1/4	41	46 3/4	52 1/2	60 1/4	66 3/4
Dis rate.	28	35	42	49	56	63	70
Lost 44%	407	505	583	658	742	830	910
33% off	263	339	388	441	494	556	600
Watts lb -	7.4	7.67	8.19	8.16	8.3	8.13	8.23
Total watts	9510	11900	14280	16660	19000	21420	23800
E watts	A9	10250	A6	15750			

Make Cork drawing thus:





Output per Crane per day of 24 hours
32 $\frac{1}{2}$ lbs nitrate

Cupric Sulfate + H_2SO_4 in presence air dissolves Copper!

Cu Sulfide + K Thiosulphate
Try $CuSO_4$ + a bit of other salts in presence of CO_2 occurs over K Nitrite

Pal[illegible] Nitrite, warm on Cu

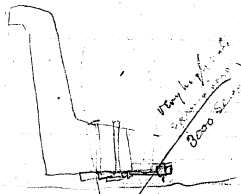
Bismuth hydrox dissolves in glycerine
add glycerine to 2 Cubic Cent Cells 1871 Pelletier —
Change 7 times simply + just one hot,

CO. dissolves Cuprous Copper
Sulfate dissolves Copper.
good, = Try Cuprous Chl
pass the gas [illegible] Cupric Chl

Sulfur + Na Thiosulfate

Neutral Ferric Sulfate is reduced by Copper

~~Cupric ox. sol in [illegible] sol [illegible] perhaps Ferric chloride to give 2x & 5 [illegible] dipalcos. Cupric [illegible] Cl & [illegible]~~



~~It is possible that the only way to break high powerful Sophrano rate is to [illegible] point in a good [illegible] where natural state is as high as the Sophrano [illegible]~~

Cupric Chl & acetylene passed in —

Reduction Bibasic phos. dimmum (saturated) may use another phosphate in the sol. which has phos of 72 Cu Ca Mg

Iron Electrode used —

Oldest to 29th [illegible] 1813 [illegible] Paid 7558/- including Lab & all subscriptions & expenses.

$4.16. per Cell - salesa —

Cuprous Chl very sol in NaCl, form double salt thus with Cupric Chl should dissolve Cu

~~Cupric Chl dec Cu~~

Column of Zinc filings
Pass water thru H_2O_2
Filtered - this blown into
2½% H_2SO_4 dissolves
Copper

2½% H_2SO_4 Bichromate
& then add H_2O_2
only 1/2 the amount
H_2O_2 as on paper in
this case -

Try 2½ H_2SO_4 + H_2SO_4
& H_2O_2 -

Try Hypophosphorous acid
on filtrate,

Try 2½ + Iodine -

To make H_2O_2 suspension & ultra
Violet Quartz Hg lamp -
pass air - also try Ozone
& pass air into 2½%

Ferric Sulf Carbonate dis
Cu - try again

Copper not precipitated
any Cu left in presence
of Salicylic acid
let any [illegible]
albuts - try Nitrate
+ Salicylic
dilute KOH + an oxi leaves
with Salicylate in it
Every aromatic oxy acid in
ortho series does this
Quinic, Tannic Etc

Ferrous Sulfate, Turpentine & Quinine oil, 2 1/2 % H. Peroxide

Put 15,000 inch plates Ni & Fe together, press hard & weld in Hydrogen - use 3 plates then roll out to .0035 - guess to 1/1000

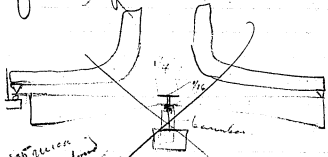
Q-W test strength Fishers 40° below zero & 01 Continuous -

Design Pressure Gauge

battery - A 12 heavy terminals but 90 A 10 Carbon put in -

Tell Buchman about dull flake Kuprox -

Bleas - How about, feller for B & Cells



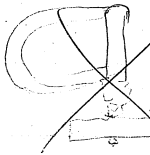
Goldstein figure how much Ag required chs - lb Cu - also if can be recovered by quicken - or regenerate Cu in any way.

Try [illegible] HgCy dis Cu
HgCy dis forms gradually
HgO — [illegible] this to
GW the Cu

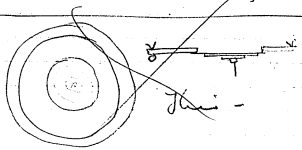
Try formula a Coo
formula K formula Nitly
Ray decomposes to formula
Ka Nitly by heat.

Have 24 3½ Cups
made & 24 2½ sizes
Cupcake
to Collect & pressure
Repairs —

See Henry Miller
[illegible]

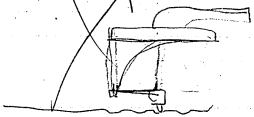


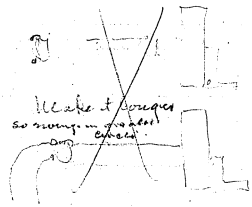
Try Lot Experts
Lorenzo formula
like stop
jumping



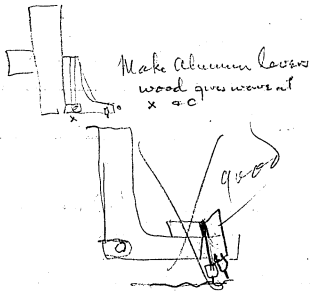
Thus -

Gradually try the fusible metal
See Carnelly Book -




Make it Gauges
so swings in gauges
check

possibly no fluttering


Make Aluminum lower
wood gives waves at
x & c
x
q & o
q & o

Mica dia - 5/1000 then about 10/1000 rubber
then 5 mica & so on until diff.
5 mica 5 rubber cement then 5 mica
& so on built up 20 to 25/1000
thick - 1" thicker center -

Try the brown light Cardboard

Send for Archer & decide about
making test tubes speaker
too far behind -

Get to DB 10 lbs/sec new crate
How about tapping tanks

also Bachman about peal
in drying wire for Hydrogen
in Wheelman -
& How he left fellow on
B4 -

Bless Hood about fellow
turned B/4

Holland How about filling & ring bell —

Scull Coat sheet,

L Oth = How about Quad Reefs —

Gwalwead ~~about cut of glass ring & hard hum get Green Reefman of a Molar for about,~~

Webb & al Welch & Doud back up but Coat surface & then hum tons or grind & scrap to a fit on steel —

Bachman about scrubbing brush cleaning of Seam to get good plating —

Tom Frain Boston 1 Run Grand Central —

Telephone Page of Lacuto to go —

11 anodes used daily —

32 1/2 lbs per crane —

28% reclaimed —

See Scull & Bachman & see where the loss is — 107 lbs dry

Dyer - House Magnetic
about Tieing up all the Rays
Subdepot on Magnetics on royalty 1/4 cent
for on Sales from their magnetic
wz to have exclusive & handle
beg Great Film Co, in Sub Dept,
or beg connections thru the desk publishers
or attorneys —

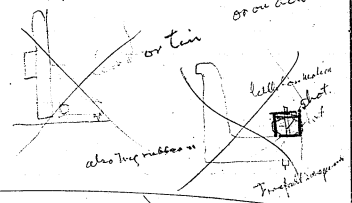
Varnell

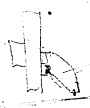
	Yearly
Wagon Depn	18.50
Horse "	25.00
Harness "	9.00
Repairs wagon	50.00
Shoeing	30.00
Repairs Harness	8.00
Stabling	216.00
Veterinary	6.00
Driver	780.00
6 wagons	1142.

4½ miles fulltime Customers
60 deliveries daily
average total travel day 15 miles

Try glass on Speaker
hope with diamond -

Try 2 points maybe both on
spring.

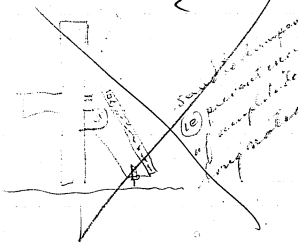


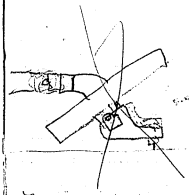


The lever must have a
stress band independent of disc

Strengthen wooden
levers specially on the soft
Spkr think the lever bends if
too much —

Walter Rice Dwight cards
to Dimitri Smirnoff
Hotel Kuechlbacher
+ have been connected
having — is under control
in Europe —





Try Cupric Cyanide + KCy —
Try WH_4SO_3 + HCl only
" " + pass chlorine —
test glucosate for gold
Gone [illegible] of pass chlorine
Has sought [illegible] good —
[illegible] Chloride —
Chromic Chl —

Buchanan cut some flake Composite 20 30 + 50% more area for pound Equal to Cry Acid — Must 3½ mily beds of wood and 4 ~~[illegible]~~ Sizes water beds —

Get 2 or 3 lbs of Copper Sulphate from Bailey Co from Regen. Mbq 8 — see if Can make it good for Lebanon Sulphate & how much Mbq 50 zen it — also if it can be prep'd, make Mbq — 5 to 6 oz ammonia on Crude Mbq 50z — 4 drop nancy Mbq 1 ounce — See if

Can what parts of Mr Locke Chap make beds for to cheapen —

Why not use belts drive from shaft — when carriage Reg bearings + steel bevel on Crane —

Why not show drum down by a Reg with Solution dont cling —

Su if Cant use full sized flake in 18 tubs —

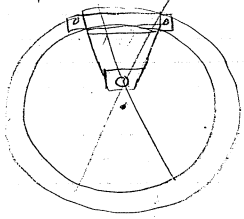
Sulphuland + Bichromate abt pouring out after 3 days the Solution from one Cell to the other through a rapid filter — or a funnel jar with funnel + Empty Cell after pouring into it + run out thru filter

Will Hulsh pass one used often Cyl full Change Reg get Explosion very only

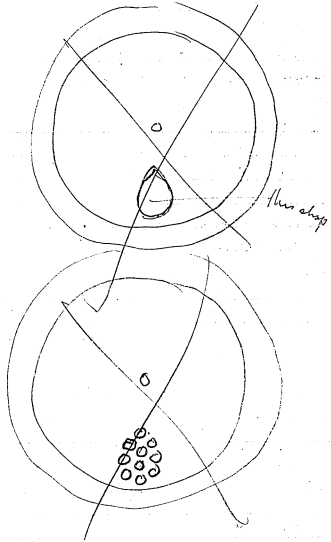
C48

Drapers – 130/100 white pulp
soaked ETO & shellac & paraffin,
ditto Melted Resin, ditto Tetralene

Dark lightly board soaked ammon
Ditto White blotting paper
" Cloth & Shellac
powdered Cork & powdered Lac
pressed to shape in mould &
ditto pith



Try this & no weight – this will
lighten & do away with Counter
weight – question the arm &
make deeper in time would all come



Tell Pirsuma he is running his recording phono 3 or 4 times too fast. —

Fr. up Model O with Cork

Opt Lot E 18. 24 - Explosive but were at bottom - must do a stop see destructive effect - also at what point we chg dow the gas opt explosive

Smith - Have A4 made with dope made at seams. — go on test.

See of Goldsborough made the long batch of 1 or 1½ #s Cobalt Model —

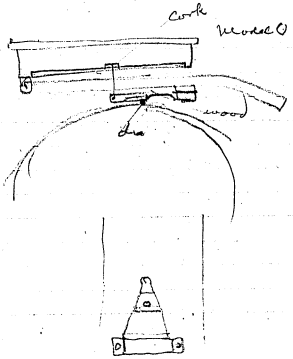
Notice Nordica & Caldson Via Geo not on power due to long horn on horn

Try the longer horn on a second that wont hold on our new speaker & see if it holds — ask Weber if he used the same Vic speaker on the test 5003-4 & the 2 Cobalt 1%

without Light —

Patent need see for how
" Big phone & Clough —
" Company second & grower
" Stop N.O.H.) - Lillo Cobalt mod
" Cir Ally Regenerative
" Gaving Cobalt water —
" Outstanding 1/2 & wholly with oil for all Bd to start —

See Mallory about turning over Cement from Nuching of whole House prop to be done at Stewartsville my Expense —



Goldstein - takes some seeds
Approx put in 5% NaOH
takes 10 & 21 - Closed
box - dry no hole ~~when~~
When wash - see how long
takes to dry - Run Cows

~~Pierman. Picric - Longer short~~
~~part to horn - wood. Lever for~~
~~knife - doubled diagram -~~
~~Paper pulp - longer dia~~
~~2"~~

~~Heavy Fix up the stocks the~~
~~JCE Drawing -~~

~~Ask Dyer about Steel~~
~~Accelerometer part on~~
~~Breathalyzer -~~

~~Lowe off - Try Tellurium~~
~~for rectifying nearly dry paper~~
~~also as a Condenser for~~
~~Bacteriophoto tube~~

~~WW -~~ ~~Resistance 1000 ohm~~

group 3 with 3.5 mlg
of 75/1000
dittos 3 mlg Reg grain
dittos 2½ mlg

Tell Walter Mullin about
Operasingers - or get his
Machine - & plan to
get Experience

Bless - what about
Rectifier & mfg ½ doz

See Durand abt Wall
Phono production

Manilla Copal - gums Resin
Hopmelting point, gramin + heat -
Petal = Manilla Copal
& oxides, mixed & heat,

Legal dept make accounting
drawing of Spks shown
beverage & peacock
contract -

give specifications of
Nickel to Legal Dept.

Tell Jiva about -
Oil Stal blue

Try new disc Spks on Victor records
also at auto

Dyer about that letter to the Norfolk man how he sent it

get dif Aluminum alloys Especially Aluminum Magnesium. 30 Mg + 70 Al - nearly as hard as Tool steel -

Louis Oth - work with Lithium Sal ditto Barium Oth Zinc + Vi Electrolyte etc. of Zinc wool in Solution for battery

Try make $NaOH/2$ by using dry $NaOH$ + Chloride Na anhy - Nitrate, Etc - Acetate,

Try Gold Leaf + $CuCl_2$ + NH_4SO_3 or NaCl - a battery - get resolution wanted

Try dis Cu by Oleic acid Hot,

Try formaldehyde & acid on
Lubricating oils & burning oils
& other things — get solid
products — asphalts, etc

Goldstein ~~see~~ of our Schwedes
Wtr on Cu sal in form & solvent
for Cellulose — ~~[illegible]~~

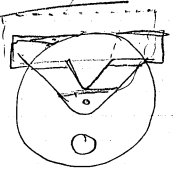
Goldstein — prepg acetyl
$MeCl_2$ in chloride
$NaOH$ — also acetone
sulfur organics in refrish
$MeCl_2$ is sol. dry
slow.

Rabroquet — ~~should~~ be a good
circulation ~~of~~ con iron in
~~[illegible]~~ Mazzfly preferably
superheated, = probably elkam

Water for pockets Cadmium
& use Mg —

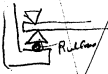
D Van Norden
Wardan Nitrocellulose get it
just out.

or



To brace to make Spkr track
more in the center —

Try 2 knife edges — also
2 knife edges one on rubber



also Gottl on

Rubber — also
Cork underneath rubber
pasted on thin paper to
form ring or bellow on
Edge Drapin — also bellows

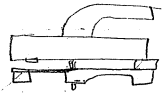
Blotting paper soaked shellac
paraffin etc - Rosin -

Also board made up of sections
to 130/1000 but put together
with Tragacanth, shellac
Rosin, film dope, etc —

Dia

Layer of porous paper pasted on
to soften sound waves - also Cork
1/16 thick - Chamber widened
a little —

Leverage - wood -



Lead -

See if Native Barium Sulphate
Barytes can be got in Chunks

Greenley - ~~[illegible]~~ Ferrous Sulphate
with by passing dry Nitry over to
remove the SO4 as Ammonium Sulphate
+ lime then to make fresh Nitry
for $FeSO_4$,

~~Greenley - Drop~~ Ferrous Sulphate
by NaOH, dry with NaOH in a
Bitten washed 4 hrs oz Chromical
reduci, dry quick in rotating
Cylinder - also Crush up Sulfate
of Iron together, only use very
slight excess NaOH, dry quick a
peroxide, send to Chromical to
refiner ~~also~~

a new method to investigate passage of H over Fe which over gives ~~gives~~ an ammonia — then out of N in the ~~[illegible]~~ H. gives NH3 or what impossible because N must be on the top —

Goldstein Co. calculates amount H to reduce lb of Iron to metal —

See if high density iron deposit Michaels Fe in fine powder so dont adhere in cake to make Ballery iron — perhaps from a nitrate sol or other and it cannot get powdery after — also with large quantity of a foreign salt in sol like a Soda Salt,

Organic salts of iron when ignited out contact air give to metallic iron & some ferrous ox — must be a volatile acid, acids which give up O_2 leave ferric, acid like Carbonic which decomposes O more freely give ferrous ferric, Try acetic,

in ammonium sals

Ferric O_2 is deflamed by igniting to red heat Ferrous Sulphate with 1/12 part Saltpeter a peculiar thing — Chromic Sulphate cheap

Goldstein prepares K_2O, made nearly free sulfate, then add extra Na_2O to give heavy lovely iron and low slag

1 H_2O

Lilly twice the quantity Na_2O.

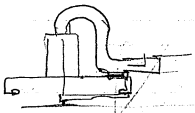
Adapt Soft Spkr to Victor
+ use our record —

Go for Arkew to send boxes on
10 inch Ulrich to ~~OK~~ —
Get him use a good ~~Special~~ record
see what he can do as a whole

Send for Rapero & talk
over Lopolo Bergman

Have Scull send over the
detail Costa Jenny says
that his memory seems to
be poor & he bottles keep
daily memo — go for him —

Try Rings Edge
Opposite to usual thin
vibr dia dont tend jump
weight so much allow on arm



done

Freeman make an over
spkr for click —

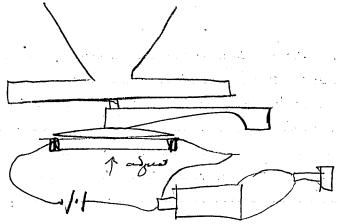
See Hudson found of Reble
has used up old Copper plates
at Silver Lake —

See Ulrich strong platinum Expmt
is made

Perhaps Tellurium or quantity in
KOH, deposit as Te on neg pole
see —

Lotti = preliminary some
wood to red - put in
several woods & bring
to 500 or 700 - then
put in 21% on heated
for long test see they
are flexible - also some
longer time & only
Browned - also higher
also under press heated & beam
to Carbonize or brown &
form to shape
Also mix Mag Ox & Malacca
Carbonize 600 or so - Little Cooling
use - Hard Rubber powder
also Barium Sulfate -

When stokes sends loaded
Samples & OK make up
Enough for a cell to drop
test strength rubber also
test Each piece separately



Telephone & high voltage wire
Cover 1/2 in 1/2/000 movement.

Dyer - Why not engage a fellow
from Orange section & make for
small Tommy groups of the Hall taking it
up & giving them home or week -
use mail for films -

Spongy flat or black on inside
Cover of Cell to continuously
stop gases see how long
last — pk

put arm & dies in model
under tension by forcing
Corkin —

Raise Anderson
salary $15. week —

tell Bachman & Scull
do nothing about
regenerating Why
get new stocks
no Ammonia

patent new Copper drawing
process —

Use 1½ thick steel plate
holes in part Cond. wire on
& press reducing it one pass
& flat & solid —

ditto Asphalt Woodpulp
& an oxide, as Cheap
base ½ thick One
side seconds —

See what Clyde drawing
pots made of perhaps
can heat from outside

Chrestensen Keep dope
mix hot for 2 weeks
to see if asphalt dont
oxidize —

Hurry up 13 4 [illegible]
also bottles & [illegible]
Relays from Office
also tools here to
make fur in hurry

Send Benjamin angels
& pecans Mexican pickles
Stay Can't use [illegible]

[illegible]
Meeting [illegible]
Make [illegible]

Fred ATL make 1/2 day
Records 4 men
KO 333 named 23
Monte Christo Quintile

2 Reg tubes wet with
3% NaOH, heat on hot plate
to blacken then on Tool.

dill 2% 2 oz 1% —
Cleaned bottles —

in drum put in meant so when
sheet OK - drive it in grooves
leaving placents cut sheet

Patent Executive
Cleaning —

Patent says flake
Cor Eating process

Home reasoning by scheme
[illegible] etc — [illegible]
Horn, Chase 10c
[illegible] — Z Mun Rec

~~Brainard — The Chemist Myth~~
~~By Drews,~~

~~Makers of men pub by~~
~~Rebman Co Nyc~~

~~Food adulterations by~~
~~Wiley —~~

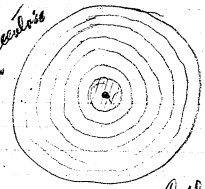
Patent $CuCl_2$ + NaCl
with air & heat to
work gold ores —

Edison Treat gold Leaf $CuCl_2$
+ $NaSO_4$. MgCl CaCl. BaCl
SrCl. KCl. ZnCl. MnCl Bulphates

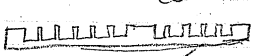
also — substitute. $FeCl_3$
Mn Cr. ZnCl for the $CuCl_2$
for patent

Moisten Red iron with Phat
Chloride + drawing by KOH, could
reduce for Cent Fe_2
dello Cd, Cu, Sugar,

also Geneva's
Counter



Cellulose



+ Varnishes

also thin cellulose on top

2 Iron pockets not
nickel plated –
2 more dup – 4 tubes
long test, to see if
necessary to plate ~~tube~~
perf film + ~~or~~
ditto 2 cathode tubes
being ground off –

Also film plated & then
perforated, for the tubes
3 –

also perforated tubes
not ground but plated
3 – Long tests –

Probably is that
formation of magnesium Hydrox
is from part in medium
in ½ of battery &

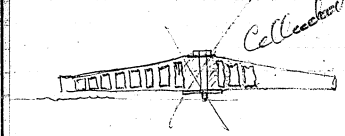
The reason is that long tests
dissolve brings back the iron
is that the Carbon is broken
up –

Grinding – Rig up a Barbing
pot & get rid iron from
Rll + reduce to metal
by definite amount of
a solid hydrocarbon like
Asphalt, etc
Rig up Reducing app so
any gas or vapor can
be fused to make
steel iron

~~Probably is Tell~~

Buy from Dom Corp 25 lbs
of pocks & covers
Rubber – Gum to make
Hard Rubber

Petit - Melt Rosin & add oxide
Keep it melted & take sample
out frontispiece to link a
Continuous till MP get too
high. Use this to vary
flakes more oxides in
Pulls for dura -



Be sure Thomas Knows
about blowing air thru
Cu disolving solution
ask how he got along

See ~~wif~~ flakes samples
Barry

Make 1/2 dog iron pkls
with flake 1/32 dump again
for Cold tests -

Norman get diamond in
Aer Repeater & play 333 on
New Records -

Also Diamond in Hymn &
change thread to play
4 mud & try 333 new
records +

Get blueprints of present
flake separator so why
so much fines made
& how to fix

find something that
will make Bismuth
more sol in NaOH so plate
over — perhaps cobalt
thing to plating —

find a very liquid solvent
for shellac not water
when treat up — prev
in presence of a peroxide
will condense the Coat +
harden the solvent

Do some Crane work at
Cement works 20% profit

MnO_2 + PbO_2 both dissolve
in acetic to form diacetate
This for disc — Red lead
Black of Ce fine from igniting
the Basic Sulfate of Mabb
from - Hoskin new process

Antimony Sb_2O_5 - disc

~~Adapt~~ ~~[illegible]~~
Speak in new weight Editor Office
of how it can be adapted
to disc also for a reader

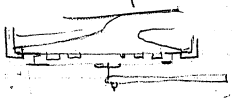
get Model Carlson for
blue record,

Try Irbrahal method & air
in presence of Condensers
& quickly [illegible] Condensers
stuff = ~~[illegible]~~ dont Cons

See if Oxide Aluminum
will when mixed Excess
Al_2O_3 condense when hot

Chloride Lead Disc

Suggest to Dyer he seek
credit of Yale + Towne
& other big Concerns and
to management —



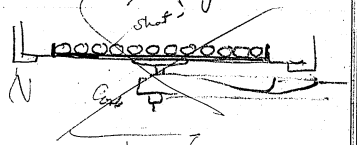
Cellulose is also used on Aluminum
Cemented — also paper —
Etc for flexing.

Acetylene will precip Cu from
our ammoniacal Sol,
I am a Machine —
get "Inj a work for flake

Storage battery — Copper
sponge & with Electrolyte
Mostly SO4 with little Cl
Then charge — ~~Bubble~~ sulphate to Cu+O

Cathode stays Cu — our discharge
Anode formed OX + the Cathode
Sulphates —
This Cuprous salt big money offered
either form of Color Dye & Antiseptic —

Send for 1 lb short bird to
Buckshot 5 sizes —



Ask Goldberg % of Excess Nitric Oxide
over theoretical in recovering
powers, 5 @ 6%

6CP Police Projector — for local
light & adapt for pencil
for signalling

Goldstein –
Make test lot slow dry
.520 auth. 1% glycerin
1% glycerol ~~or~~ 1% Tartaric
acid also 3% glycerin
3% glycerin
~~[illegible]~~ also 2% Sulphate
Ammonia 3% Proc ammonium
2% Carb ammonium
Want see if $NiOH_2$ well
desolve zincate into get
slightly Crystalline –

Get some of Goldstein by
Catch B. $NiOH_2$ &
Smith make 1/8 Cube
Cell for test –

Pettit – add w/ Barium
to recover Nickel
ditto Sulf de Ammonium
precipt
to sulfur

Tell C O C Try Monocarb Na
unless $NiOH$ for Hg O –

Try Embraph dress a la
Condenser as transformer –
KOH damp – Cd + Ni check or
Zn + Ni – also Mn + Ni
but unequal surg [illegible]

See about artillery
Condensator for plate Capacity

Make small tubes
of 1/ [illegible] also
of the [illegible] lot of 1 Co
5/ for [illegible] of 1 Co

Look at Census for towns
200 to 1000 -

Get that patent for
Mfg NiOH Electrically

Write Hooker Electrochemical
Co 40 Wall St NY

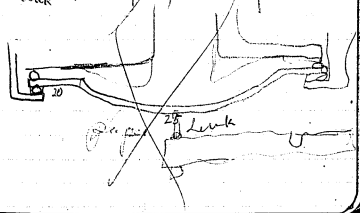
Townsend Cell -

also Mogurn Alkali Co

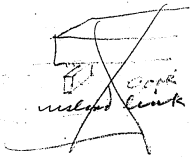
Electro Bleaching Gas Co
24 + 26 E 21st NY
offers Chlorine for sale 100%
Write them

Form odd dry Ni Electrode
with cloth around
for HgO cell -

link - lever spring out strong



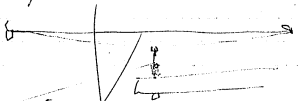
Certain — Electrical
Paraffine Diagram



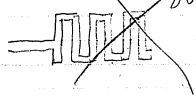
Dyer 605 Towns in 24 above
250, 80% go above 600 —

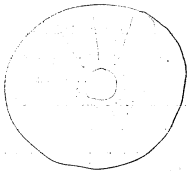
10 Trowellen Steel 2 week —
1st month 80. thereafter 80 dollars 960
1 year. 4000 Towns at least
Left 100 times, 80 ft at 150 & 12 to
120 Each Exhibition,
Town giving 2 shows week of 2 reels
48 cents — week — Rent for 2 to week
+ postage, sought wholesale "Press" &
4 new records 2 old records, one rental,
+ postage —

Bary film machine + fireside + screen
$75. new blue diamond records
used, mailed, · We show monthly
list. Records on film + flo-cast
Dealer Agents, man + wagon
or make Theatre owner agent
to take orders —
Commence at seven after 25 subscribers
obtained



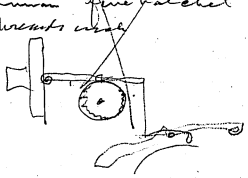
adjust so no
pressure on diaphragm
when replay





Rig up 4 in & 1 ft factory plate to make dandy tool, 8 lines 300 rate —
1 plate dandy —

Pickman fine valved
1000 threads wire



Mix Quick Resin Jelva & 4X6 - & condense dissolve out Yellow by Benzol Hot to coat of Cardboard sheets

See Dyer down to QCR about getting back from Sun factory

Get some washed fines from SB Co - press & dry & see if resale - is for money

Make Rep Equipment of various loading weights by long drying and green wood to be dry & many Adhesive

Use in A 12 Can 1/32 clock
in A 8 = Double Inch clock
than A 4 —

See Hall & Graves what
been done to get a
Camera for 13 you
should have 3
for Bronx & 2 & 1 outside

Drop 20 dry Reels over
a period of 1 hour by
drying at 212 for 48 hours
& running night & day
Especially drop those which
are torn & not running

Investigate why Rec 72
not assembled promptly
& what is necessary get John
all at it —

Ask Pitch what are the bugs
in Celluloid records —

Drop danger of an unavoidable
record — If we use unavoidable
name should not be used
but some other word

Ask Abraham about bug
at Cobalt

See Weber about platten
on disk shaft and
Reinforcement of arm

See Aiken & Wood see if
Records press with a
platten with Ribs in —
4405 —

Also about not backing up
good records until we find
Francis

Have wire procured in Saphers
dept if so what to provide
men working big wires with
glass —
See what dealers glass
Orderly & get saphers —

Get one or the other
Young furnace machine
up here for Capt.

Write Down —
Phone —
Try & new 5 al attach
Co & what other
materials for patent
purposes —
also try Nat Cl

See if Weber has an
auto phone system
Dealing accessories

Bliss when dynamo has
new man come

Have Koppes come out
Talk with him —

Weber — prepare method of
securing Dynamo Mag
must be good & quick

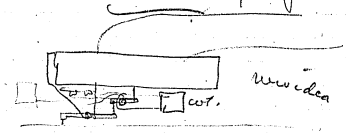
John Ott

Reg green in KOH – dissolve
Nickel all in KOH warm,
then wash free of KOH,
+ Prepare tubes with
green

Take flake in bottom dish
on Ni cathode use KOH,
dissolves Metallic Aluminum
in it & use flake in
anode for several hours
then wash & use in a
Cell –

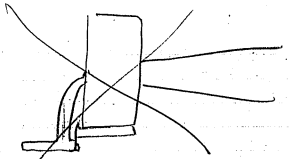
Reg green in dish on hot plate
with Conc K_2SO_4 + free KOH.
Keep Hot for long time – Excess
Selenium – then make
tubes,
ditto with Cats KOH in
free KOH.

Dyer – under assumption
of Home Kinetics regulate
pressure with Motion
P Co so we a press of a about
+ not be troubled, since
royalty on each machine say
25c to make bargain form



See Wirth about bad
Changes he has made
in Gas Machine –

See Dyer + show him
Workers Work arrange
things different



See if BS - Condensers with
acid & formal - if it is
an alkali or acid) -
if it dissolves rubber

find Solvent (melted)
for pure rubber -

Dyer Parvans is selling lots
of Machines in England
Do we sell many

Goldschm Try NaH sulphite
+ $CuCl_2$ for fluids

Make 1 tubs each of compound
insoluble - KOH, such as -
Sulfate Ba Sr, Phosphates Borates
Chromates Molybdates Uranates
Zirconates etc to see if
Cuni cat a per salt
to replace NaOH)

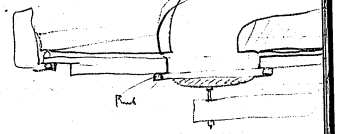
Already precip various
amounts of Ferrous with
Ferric Sulphate, as long as
dark, could dry & try
also ignite at various temp
& pur ~~[illegible]~~ precip with
NaOH - Also Try
Chloride of Ferrous + Ferric
& precip with lime
precip at various temp
Cold & boiling - dry
slow & fast, also

Ignite various parts of former Ferrous acetate to drive off all the acetic in closed still —

Patd Mix Asphalt —
20% Sulphur flour in rolls — 2 Sulcanizer —
Uses Deposits Coy
Labouels — Tray
Coarse asphalt
Uses way

Precip Ferrous Sulfate with Carb Na, then Gold the Carb in strong Koh.
or by heating it in closed vessel —

See Goodwin about getting a Singer Sewing Machine wagon —



Thin in reg dia
Double Dia

Dissolving which Cerium in Benzol with a red or black aniline dye flow and viscous also alone without dye the see if point tray

Newark infm

L Moore
Chge of Instrument Room
Worston 15 mew —
Comes from Cleveland
brand Engrm large machs
Works with Nat'l Cash
Register + Underwoods
Hard Rubber Went to.
Took Worston as Toolmaker
as his H Rubber job wound
~~bad~~ Co went bad —

W J Tewksbury
Auto Electrical Co
Chicago — Opened
Dept, prop-only
with William Elec
Was inspector from
Gnd Fahrman, 45 yrs
High type man

Geo Johnson Elec Reflector
Nat Lamp Co of Newark
Mean Lamp - also get
one of the Roller part lamps
with reflector, have one at
House —

Bailey Co start Complaint
or defect book of all
Troubles outside

Frank Sager
National Cash Register
Head Chge Tool Room
once 105 mew Dept
Went Yale & Towne
Went to Chicago
Now back with
National Cash
Reg

See Walter Weller at once [illegible] taking [illegible]

Charge a cell fully then pass the transfer 6 hours warming up 100 Volts & then discharge

~~[illegible]~~ ditto Oxygen

ditto put in KOH with strong H_2O_2 —

Do it sealed with Hg or rubber that makes big cell go brown [illegible]

in old Tarring [illegible] is bottom stop get Balls —

(2)

Paint a tube with a solution of Bismuth so it stick to tube, to take care of the hydrogen in Charging absorpant nitrate silver

pass tinfoil cell with cloth around the tube to keep among hydrogen

will H in KOH 21 2 li reduce HgO if so can plate outside tube with Silver & they will amalgamate & on chg get HgO + Ag_2O — which will take care of H,

Something to increase solubility of HgO in KOH would be good ~~[illegible]~~ ~~of it plates on tube in~~ ~~[illegible]~~

also ~~[illegible]~~ tube own the mixture with Cobalt

See Urban about his inspection nearly completing work, got to defective Hell here about deflection Range — How abt Chief Surgeon to be held accountable —

Possibly H_2O_2 formed on Hot NOx heater NO_2 reaches catalyzing point — Mentz O_2 formed + prevents further oxidation of NO_2 Bi prevents, also H_2O_2 di which causes cumulation — Cobalt may do same

Willy Miller — Is his formula — probably if He uses rubber tube it acts as a bellows transmitting vibration

Run a glass without Cracking — use in NO at high pressure,

Write Ferguson to price the tools Requested —

How long was the Hum with Crab Crack for Record of Discipline

Pressure Exp'ts on Brazed —

Gravity = MnO_2 is finer in flakes & used in Electrolysis as anode

Try rolling out worry cellulose also use cloth, silk & shellac etc to make diaphragms

Goldsbury: Try Sulphate Cu instead of $CuCl_2$ in flake solution

Try $CuCl_2$ also $CuSO_4$ $MgSO_4$ as in battery Cu Neg. Carbon & Zinc

Take Reg gram & heat with 21K + dry ammonia Expander K = S 8 lb on plate porcelain dish Cobaltate & Cryolite

Goldsbury
Try $CuCl_2$ & $CuSO_4$ as flake
also Quantaline run down the Ni Cu separation by NH_4OH

Put a spring from fuse support with small pad rubber for recent Chamber 2 ½ oz pressure to feed, try Tin

Make for Reporter for reg phone with up to date things
paper a tube & weight pound weight also demonstrate 2 disc.
charge as possible on Home

C1047

2 tubes with orig. Ni mixed
with very fine Calcult Hydrox

also $Ni(OH)_2$ treated with
Sol of Co Sulfate, then KOH
then washed & dry -
5% Co put in -

Disc Spkr - Can use springs
spring & thereby increase
weight, should get same
pressure - Try this
to prevent thumbing on
Hebrew notes, with 2 oz.
Make an Extra 15/8/20
Can keep model -

Telephone - Put right
position on
[illegible]

Try 3 gms pure Al_2O_3
free of Silica in a basic
Sol kind - precipitate
Trouble is Si from the
aluminum -

Precip not [illegible] with
K Silicate esp of green
is OK [illegible]

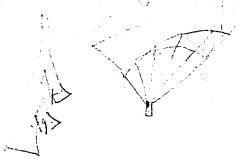
Try removing Si, Cell up Silica
by washing out all KOH & Ing
weak Hydrochloric acid,
need Sol't [illegible] remove Si
Ditto not [illegible] which
dissolve Si -
Bias Utility Cone

To make pyro use Ferrous Sulfate
+ Tartaric powder mix & dry out.
+ heat in [illegible] to put [illegible]

Pierman Jr. [illegible]
with 10 ft brass [illegible]
Extension [illegible]
[illegible]

[illegible]
[illegible] speed
[illegible] on [illegible]
[illegible] ground [illegible]
[illegible] on
[illegible] no [illegible]

See if principle of an
Electric [illegible] Chart 62
[illegible] or a [illegible]



Patent new Sulphate Cu
flake process - NH_4SO_3 dissolves
Cu which [illegible]

Pierman Make a variable
note horn by using
Variable speed phone
recording the fundl note
on it & then [illegible]
speed, use 2 [illegible] records
Hardware

Pierman, make record
Run out & then get 62 nds
from Horn -

Wm. - Electrical
Clubbe & Co

B E Brown
Popular Bluffs Mo

Dalton Adding Co —
had charge S & K Wolf Cer Co
He is from Elgin Ill — is
old Cash Register man

Foreman
Joe Glue, old Co Electric
& Cash Register
Very Capable foreman
Is with Wagner Elec Co
St Louis —

Tom Rutland Engineer
at Yales Hotel
had charge several depts
also Fuel man — also
had charge large Dept
Stamford Ct 35 yrs

J. Harris. Wright Co.
Engineer forced work for women
also mechanical Elec
is in Havana — 30 to 40 years
[illegible]

Ask Weller Weller
if when he gets his
new disc regarded
& can have one of
his old recordings

~~Bat~~ - put up 2 plates 1/2
Frown Tyrone 1/2 set
Every 3 days —

Happy —
Crosinger — Amen Loco Cole
to put on pay Grams. Prov
weaker 20 000 years Sal & Comen
Crane -

Test for Blocker put
Records in ~~exact~~ 100
Tube for 1/2 hour —

Motor for a phonograph
Mono Mercury
No hum, governor
Glass fraction - Spring 90 m
or high speed old Jenny Snowdle

Wooding - many com Gaus

Old Black U D 247 - OK

Non plated tubes with
Bi gave bad, without Bi OK
Theory is Bi Ox is reduced by
Fe & deposited as Metal
& this shorts out the
Ni - If this is
Correct, the Whole tubes ring
& grid should be made of
Ni or more perfectly
plated

Pierrunyace of Can
Clap trials French horn &
voice by Allerny
position also Double
horn

Put up 2 long tubes in Regl tral Cells with 2 sign Zinc see what 10% sol. Run it. Leave them Connect Can to Fast & see what for. Then to Ni & see what get.

Get 25 lbs each of all grades of Shellac & test for Records, bottles etc —

Look at Reg tubes & see if match lots. Leave down with bank perpendicular.

Pierman 4 horns base middle - Bigher & Wohlbe - Try 1 Hide 2 & so on also use one horn & see how far away & how weak it must be to stop beating —

Regenerate tubes soak till neutral put in a salt of something & use Current & porous pap — If use NaCl Cl forms on flake & may clog it find reduce by freezing & allow brine to percolate only then top with ice & barrels radial

Make 2 test cells with Hard Rubber also the Top to get no ~~[illegible]~~ metal —

The arm that holds the pick-up
pad on governor of Recorder
May have a notch. This should
not be an arm but a rod in
Even when in Motor is used

Fireman get 160 Mounted
Recording Sapphire breaks very
light & burnt for years on
record

Also may be heavy (long)
in turning off records
There is a hum from high
speed or this affects by
pressure for at all —
This will be shown
by light tracking & Grey
Marks.

Tell Walter, Miller when
time short & don't feel
track it out, Customer Can't
Tell —

Square disc then put in book
form mechanically so Each is
removable —

on back give names —

disc round but fastened in Album

See if Mandrels have worn in

Rock on disc should have
fewest teeth possible so
lot levers Cutters Collet

Aiken Make 3 or 4
123 - #4 thin —

Try the 2 album records
on a Motor driven reproducer
instead of the Clockwork
Repeater —

Try Oil Black 246 in Formalac

Tell Walter Miller about Black record way.

Take bad cell wash out KOH, Then put in Conc. NaCl, put current on 1 amp for 10 seconds Reverse then wash out — + put in KOH 5% Reg —

Same but Na fluoride

Tell Bachman several things about ground system & filled drawing of steel head gaps. Run the Sol'n —

Can get cell Cu wound powder plate uses C.P. —

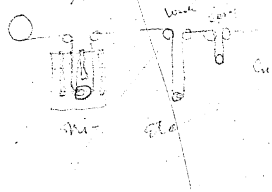
See p 10 + 11 Brown gr Apl 27

Drawn jar & remale battery Anderson

Try $CuSO_4$ & $CuCl_2$ on paper also $HgSO_4$ & $CuCl_2$ on paper of of Lenalac

Try other organic bases with CuO, to darken paper instead of HgO

Flake Copper band machinery 005, put many on roll plates



Heavy
Volume are the police
on Florida & also House
in Park

RA Make some 7z
with 1 3 & 5% Cobalt
in it from Selphacia

Greenly plate 7z
products 6 sets with
thick Cobalt —
Ditto 6 tubes
Run 7z with 2 deg
tubes — also with
2 Coplated tubes

Rectified Slaving vs
Cowbon Charged in
Sphere —

See Dyer re Bookkeeper
for Lawson night money

If trouble is due to too much
Brass surface with B1 1/8 tube
Cells Use 2 grids of tubes
together to one iron —

Good way to mould the Wicked
plated parts from liquid
for instance grid & plate
pieces is to oxidize surface by
very intense flame
Make tools + use of greenly
dropped from oxidized surfaces
if No — Try it

Think the gum from shellac is due to the guess of manufacturers Have X Expt on a way of getting it out, ~~[illegible]~~ boiling up fulles 150 ~~[illegible]~~ @ 150 which that Zeitschrift [illegible] of [illegible]

Write Lac people ask that one of them people come out when [illegible] ! 000 [illegible] get points purchase or [illegible] + [illegible] [illegible] used for [illegible] [illegible]

Will Lac melt or is after [illegible] purified [illegible] [illegible] out [illegible]

See if much wax in that Red transparent Lac 4/6

Tell Petch & Old that if they bag their pots they can keep Lac Melted with a few drops kerosene at the bottom then now & make less bubbles & all radiation losses must be made up by a higher heated bottom also a cover over it,

See Bodin got Mendel Trax - Enough wind proof bat wax -

Put no 4 tubes 2 of which P Cowell Can 2 N_2 to can raw Hat

Dyer of Lansdale can use his hands & get into bag again —

Dyer meeting of Lansdale Co.

Get Hydrogen liquefied in Alcohol

Paint all parts of a test Cell, Tube rings, Pt pocket Hackerize with platinum chloride & bring to red hot hydrogen

2 Cells with 1 gm Pt hydroxide in cell
ditto 2 ditto 3 ditto
5

2 cells with 1 gm Mn hydrox
2 " " 2 "
2 " 3 "
2 " 5 "

Grind & plate all parts Rings tubes grid + wire + parts with Cobalt + build hydrogen, 2 cells

2 cells, 1 gm Zn OH, 1 Pb OH
2 " 2 " Zn OH 2 "
2 " 3 " 3 "
2 5 " 5 "

Expt on oxide parts - ox a strip for tube then clean made + make tube ox rings, ox Pt block + clean also ox + coat grids + clean al Crimps, do enough for 4 to 6 test cells (small)

Take Ag. Bi cells old one that will not come up put in 5 grms KCl, another 5 Sugar seems wants some impurity in KCl, to work little

Cells has 150 cc per tube & big cell only 12 cc per tube therefore there must be something in the 150 cc to make 1 tube OK but lacks enough in 12 cc or Bi OH has 12 times less required to dissolve in oxalate.

Use B2 cells & dispense the upper by making cell narrow no filter except tube & spring -

Special cells 25 of them for investigating using small cc of KCl. no suff. chem by Bi f

~~Aikenhead WQA C. fail instead of using grafts How about backing up chem grafts -~~

When Lump Co in an some bring in Green to talk over substitute for Nearnat.

~~Aikenhead WQA How many times have they pressed one mould, what many they should keep at it until it shows limit,~~

~~WQA - suggest Newspaper Paper Machie for stereotyping~~

~~Greenley - suggested that sheet of Mighlight Cambrook plate No. 002, then reduce to Cu wash & strip~~

~~WQA - Sheridyne by spraying Molten Zn. Tin Sn on Copper tracing~~

Qwa - Vac + let metal run in
005 between

Qwa - Scrape to a fit on steel
hardened plate, = X

Look at Cast iron plate Micro

Qwa - The Cu reduce Bi -
then, when alloy sheet put on
a hot up fusible alloy made
+ it a sticking wax

Amalgamate the Copper
then heat and find the heat
Hg Volatilized get Vapor of
Hg + no ok

Qwa - Use 3 or 4 very thin
foil to make up the 005

Electrolytic transfer
KOH, Ni P & N one very small
the other very large, then showed
good deposited action -
Magnesium - all in saturated affairs
also Zn P + N. try dif strength
KOH, a dif metal in the
principle - + 1/10 of
Bolts - the KOH.

Make 150 thread small cylinder
1" longer to get 4 min
or 1/2" longer + longer disc
using Diamond file

Take a standard see
Gov to get 160 then
Run over 3000 times
Note every 250 times
speed of machine

Harry get the Edison
Snap certificate for
wife & fix it up —

Rhas - Estimate Tools
& appliances & Cost
for 10 20 & 50 weapon
Mfg low Cay —

Beach, What sys & motor
do you use on Mfg &
Little Cost and how the Cutting

Schriver Filterpress Co
Harrison NJ

precipitate MgOH from Sulphate Mg
by NaOH containing 5% Strong Ba

Patent Cabinet & formulae process
" Saving Wash water & Soda

Edison to mfg up amides & N mates &
single excess pure Ni & Cost
Emf on clay — dis with dif stuff
in KOH, also Fe Strips, Second I
try oxidizing Ni Expt —

Try 4-6 & formal on boiled Linseed
Try phenol on meat, & show 4-6 —
or formal —

Fuse smoke nitrated meals boiled
Linseed, heat under pressure to
Condense oil to rubber —
Mix little Borate Mn or Fe2O3
to oxidize

Blue new ~~old~~ Tourneau on Cover
When my own hole got drop
think big drop on Leads
Powder + Water & not
walling –

See if Can get Coulter Clamp
on a bulling Motor
Where drop in opposite to a
Carburetor etc –

Patent way we use Lithia
" Drum with Guarded
Ends –
Have we patented way of
Cutting of Cake –

Certainly make some accessories
drawn 008 006 005
007 008 – plumal Bozzo

Tell Gwin to order
10 Gro Radio Cell
with instructions

Try platinum anodes – Calhoch
lay paper on + use Acetate K
see if acetic + radicle albuch
paper, also try acetate dend to
lead deposited & acetic albuch
paper, see if anything Lindsay
same with Nitrate to get
No in –
Cover shine Collon albuch
this way –

Acetic acid ~~Lindsay~~
shellac ~~try~~ – OK fine

Condensite bigger for
annulus etc for 1 Horse
Truck – Tube for Wire
with fibre ~~square~~

Square Top ~~for~~ Cannul
Imperial –

Make another experiment
Pathe Angle Little Cougar
levers, 4 oz. N.T. & 10 @ 15
drachm strong Connect
soft,

Put burst limit 1/8 on test,

Withdraw Anderson notice
See McCollai gets full
drawings also copy of
letter & given 7 not —

One old Cell soak off overnight
till thoroughly dissolved
then put in water or
use heavy Current for several
min Reverse
Transfer to Chl Cd Sol & electro
10 min amp Ct for 1 min —
then transfer to water

Try Sac acid with Zn powder
then up very fine then heat under
pressure

Rec platinum plates out of
R.R.S.C.

Dyer Pearl Crepuscular night
tried 100 gal. [illegible] & Experiment orders &
shipments [illegible]
Auditing & time separate
so we can see just what
Smoke [illegible]
Earrings for Ballam
Ask Dyer of Lithium & alcohol
hold up put in tube & try at
Wilson & report Outlook

How about Patent now
Ryder & Acks in England
(Spanning & Blue Ribbon)

Tickling thought lead people
get cheap economy by tapping
clay - we can do this but
publics want paper & cars
that burned liquid fuel proof -
Ask Smith see drawing tapping
Changes from Wolcott in
the highest possible economy
[illegible] tapping clay
at [illegible]

Gold dust Make brass
Dilute Iron like iron
make Brass Sil Cu many
per Chloride Iron calylino
~~[illegible]~~ dry it
right see if good red iron

Tuesday Council
Meeting Steamboat
Thursday court to Olin

get good solution on hydrol
plumbago slow -

get easy friable slag
blow air through to
make porous residual

working Victor Ryder

2 tubes Ni connected to
Can but cans made not
plated + Bi reduced on it
Dup connected to Iron

2 tubes Bi 12½ %; Ni Conn
to can - ditto to Fe

get out of sponge metals
if possible -

Get needles also bamboo
put boy on test for word
of the records.

Paint 2 tubes a grid with
platinum chloride —
make test cells —

Oxidize 2 tubes (O) block
form tubes, clean inside
oxidize grids & put up
2 cells —

See new small cell got on test

Paint 2 tubes a grid with
Trinaphthol test cells —

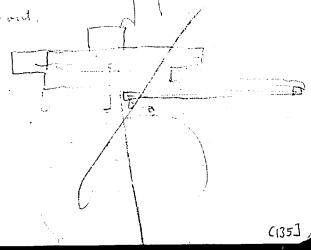
Order etc. Useful Apples
make pepsin single
double & triple —

New Sphi. Medium No 2 wear
test on a Gomel record
500 times 1/2 over,

Show Wattles Muller
Youngs V. Gramil records
see if done in this respect
it was felt respect —
Test Youngs record —

KOH, Al_2O_3 in Electrolyte
form it till good Bed.
then see if it rectifies —

Make new Reg Spkr
draw out.



Dyer — present address
must be out West bad
with pneumat bronchitis —

Russell
2635 Wabash
ave. 3rd floor
White Bldg —

Room for Trux
want one for
50 Cars, with
Great Lake — Int Lakes
about Oct = E S Bailey
garage —

Daily make gluc tubes put up
2 A4 for Enchromo Test

has some gluc tubes —
Fluoride tube, other fluoride
for coll mentalone —

Cerum Hg Drop vide
in tube —
test all urine Hg drop
also all urine
Salt in tubes —
Ba Sulfate, Sr Sulfate, Ca Sulfate
gluc, Lithia, Oxalate, Lime, Cat Oil

Make Water Mil. Reader
½ oz for proving seconds

Dip made Coh with Petrolat
2 Cells for test B4
2 Cells B4 Rub Bag Dipped Petrolat
always separate vaccine
also Imperial in Bring Fr.

C1371

Paint 1/2 inch [illegible] Chepeat for test —

Coat Ni strip by dipping it in Stirrer [illegible] solution and then acid [illegible] Cathodizing at Charge [illegible] —

Asphalt made by with Asphalt in Benzol —

Dyer Hyham delayed — was 2 months [illegible] phone, all such wk to Recg. dept inform heads —

See Bacon about Licorice factory —

get hot pure Na stripes & use, 50 cc KOH 2 L & add 2 grms of some variety of Chemical — run several hours for polyn run on series cells battles — & test with Voltmeter

In tubes dry Antimonides of Ba Chromates Molybdates Tungstates Ba Cd Ni Hg Fe Ce Rares, Co,

Japanese paper for dues Vinner instead cloth.

What is in Ether Liquid Ether gives a [illegible] effect by [illegible] & [illegible] Stands a [illegible] ord

446
138
1338
446
579

130

180 | 57980 | 325
540
398

385
107
278

130

35
11
35

385
278
107

35
385
28
3080
3770

c15

Spike notes -

2" long wt 10/100 - bamboo Glandless
abt same bond and wt soft - tinkles every
rice and oft soft - Hard in high hills
wt plenty white rice put even on plenty
white - standard - 1 oz - bully - 2 oz [illegible]
Thus Reple is ok for Hamer
Same with 2 to 1 [illegible] is nearly [illegible]
bond as Pitch wt 2 oz but 3 oz [illegible]
as good as pitch -

Price filler US 9.9 etc ft Price S Firm
8.8 c ft Canada 10.5 c
foreign billed 5c sold at 8c

1,35 ft Cost Req

Expose grain to U.S.
dille to Light. Test in Cell

Factory Assessment 7220

Labor & material (Estimated)	6 52
Factory Exp	2 35
Selling	68
Shipping	17
Office Books	03
Insly	60
Fuel, Lumber	61
Rent	19
Taxes & Ins	.04
Interest	35
Cash Sales	16
	11.75

Recd 11.00

5/304

61 lbs Metallic Vi Lost on wards
water per each Crane per
day 20 hours
1000 gal 1.100 density 5 Cost Cay 5.
Cranes on 6 days

C155J.

Feby

Semi fixed Shop Exp –

Foremen $ 2011.
Maintenance Tools $ 5065
Supplies & Exp 2601
Light & power 2892 — 10 558

Test Dept
Foremen 100
Wages 589
Maintenance 93
Supplies 84 — 866

Inspection
Foremen 241
Wages 1.885
Maintenance 81
Supplies 66 — 2.273

Lab testing 117 ?

Rent 1.378
Taxes 103.
Ins 246
Bond int 2500 — 4.227 grand Tot 17924

Selling

Selling 4 874
Adverty 4 684 – Magazine Catalogs etc
Administration 4 381

$ 13939

practically 31863 fixed –

Based on 7220 assembled at
a 4.41 per cent

If 12000 turned out Cost would
be 2.65 a saving of 1.76 per cent –

1948

Jenny Cost Gallery

Material	3.93
Labor	1.63
Fac Exp Gen.	3.03
Billing Equip	10
Tray complete	31
Electrolyte	33
	9.33
Selling & Admin at	1 38
Administration	70
Rent Tax & Insurance	22
Interest	39
Cash discount	13
	2.82

12 15 cm

Selling	76	
Shipping	10	
Free goods	02	
Admin	50	1.38
Rent	16	
Tax	02	
Ins	04	
Interest	39	74
Profit	12	2.82

Price Submarine Cells

Type S 2P (S2) up to 20P (S20) of 135 cm RWH 3 hour rate to .9

S21 of 125 cm at 3 h rate

N 14 — made of 14P A size 1/8 tubes put in A8 cans have A 12 paled of 110 RWH 3 hour rate

Gravity Jelly 1/2 cm dia tubes filled Cobalt/Mercury with 12% Hg 9774 m

Connect alone Cobalt with Mi and tube, ~~[illegible]~~

~~[illegible]~~

Remember bad 7½ great
back by long low degrade
Rag A4 perfect 250 bank run
in small lots drawn 580 @ 11.02
gave after 30 hours at 200 Mill run
1200 1775 1900 – the original
was 2500.

Mallory Estimates 1911

1.800 000 6 to 8 –
Cost 55c 8c selling c
10c interest Total 73 cents,
average price obtained by 75 cents
obtained, if 50c 1/11, if 85
to 80c.

Cork paper 006 gauged
weight 860 mlg – 13/1/8 diam

1800
1558
1252
0130
3847
1247

416

1800
70
126000